



## **Evaluation of metabolic rates in various benthic communities in the Bay of Revellata (Corsica) using optodes.**

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In the Bay of Revellata (Corsica, Mediterranean Sea), we investigate since late-2006 metabolic rates (gross primary production (GPP) and community respiration (CR)) related to various communities (*Posidonia oceanica* seagrass meadow, *Posidonia oceanica* litter, epilithic macro-algae) using optodes on benthic chambers over *Posidonia oceanica* seagrass meadow, *Posidonia oceanica* litter, epilithic macro-algae. Over the *Posidonia oceanica* seagrass meadow, these incubations allow to analyse changing rates of nighttime CR, and to evaluate the difference between daytime and nighttime CR. Over the *Posidonia oceanica* litter, these incubations reveal surprisingly highly variables GPP and CR values. Finally, these incubations also allow deriving GPP and CR values from epilithic macro-algae, the second most important benthic compartment of in the Bay of Calvi